

FIG1

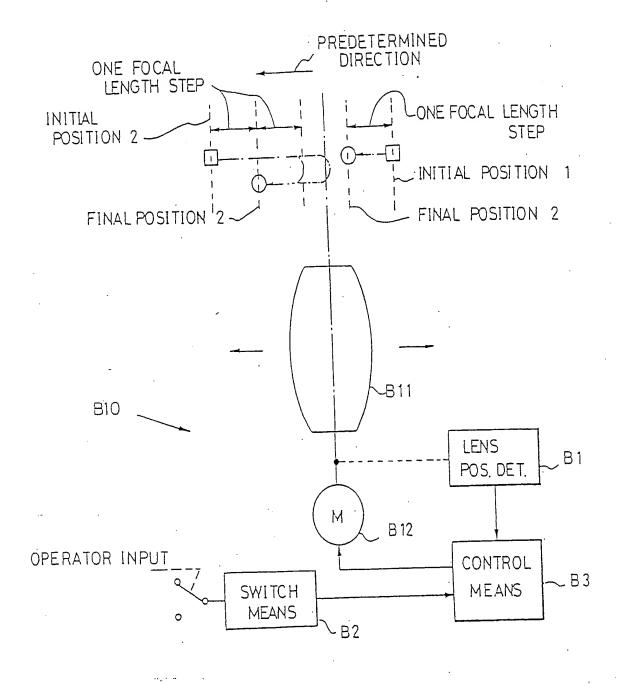


FIG.2

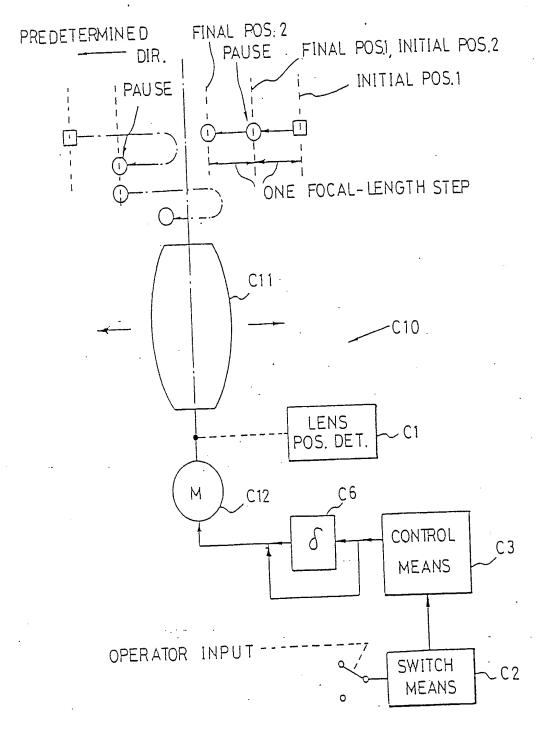


FIG. 3

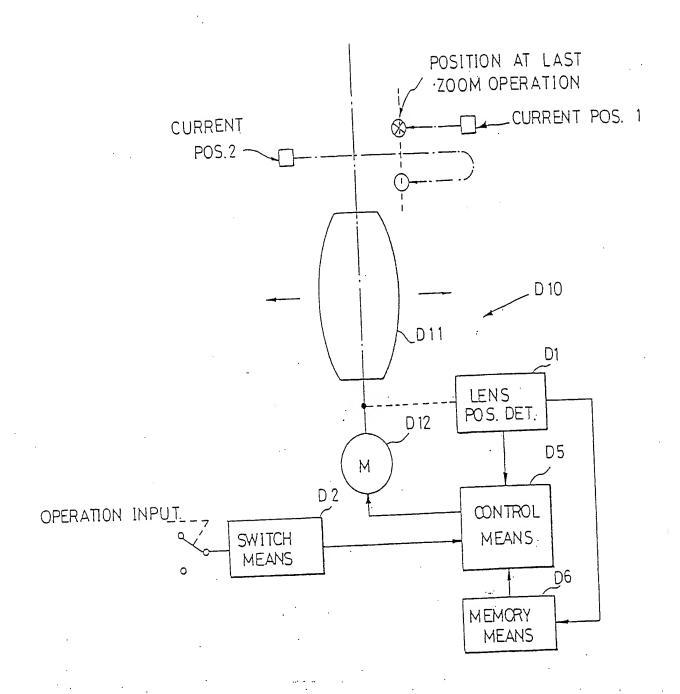


FIG. 4

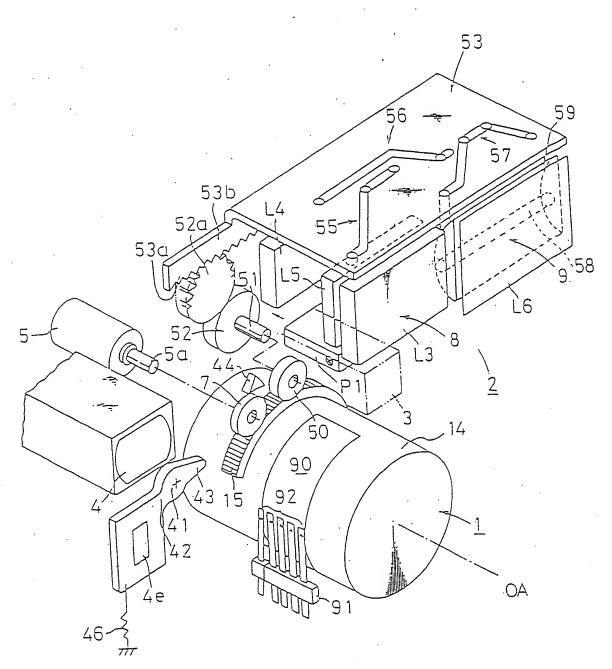


FIG. 5

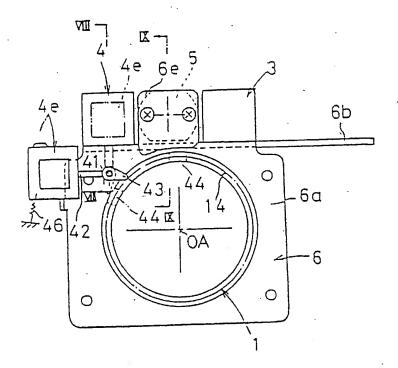


Fig. 6

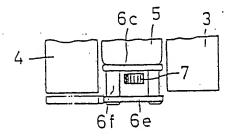


Fig. 7

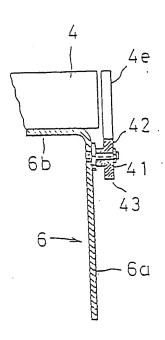


FIG. 8

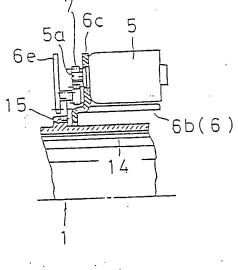


FIG.9

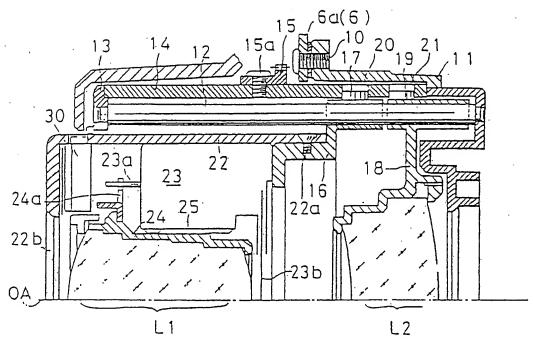
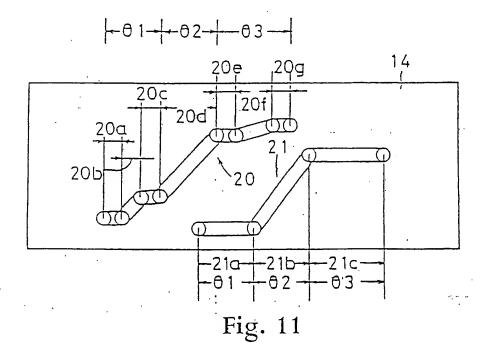


Fig. 10



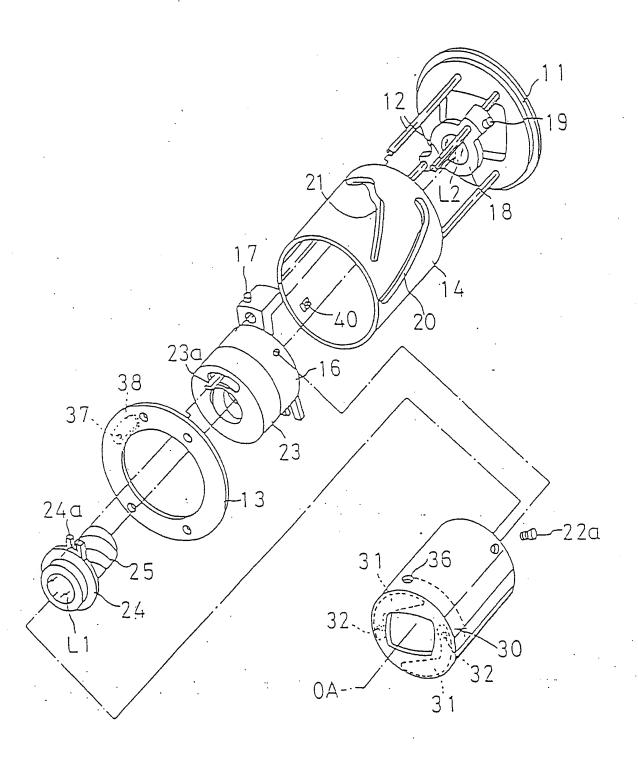


FIG. 12

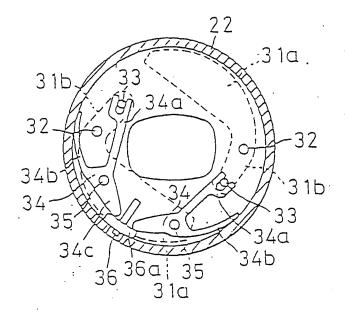


FIG.13

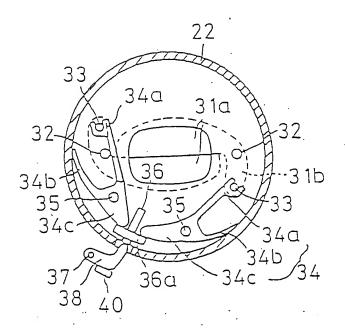
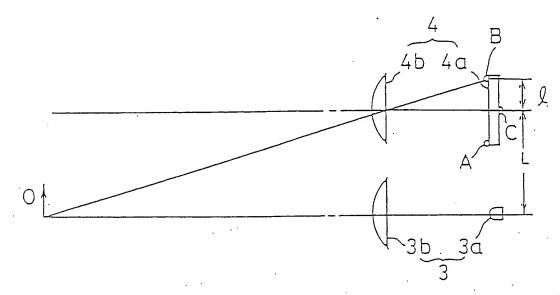


FIG.14



FI G. 15

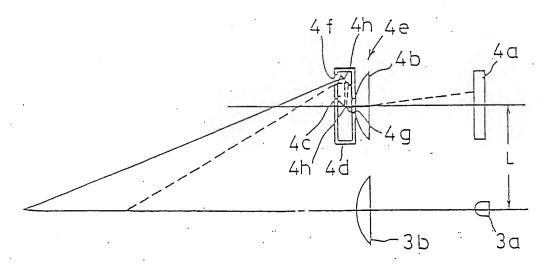


FIG. 16

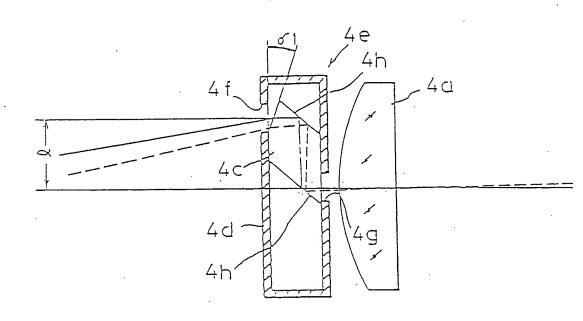


FIG.17

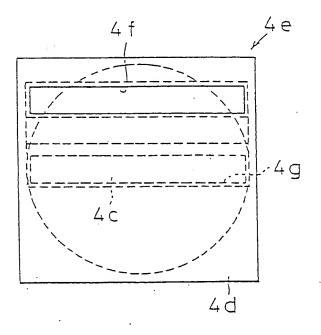
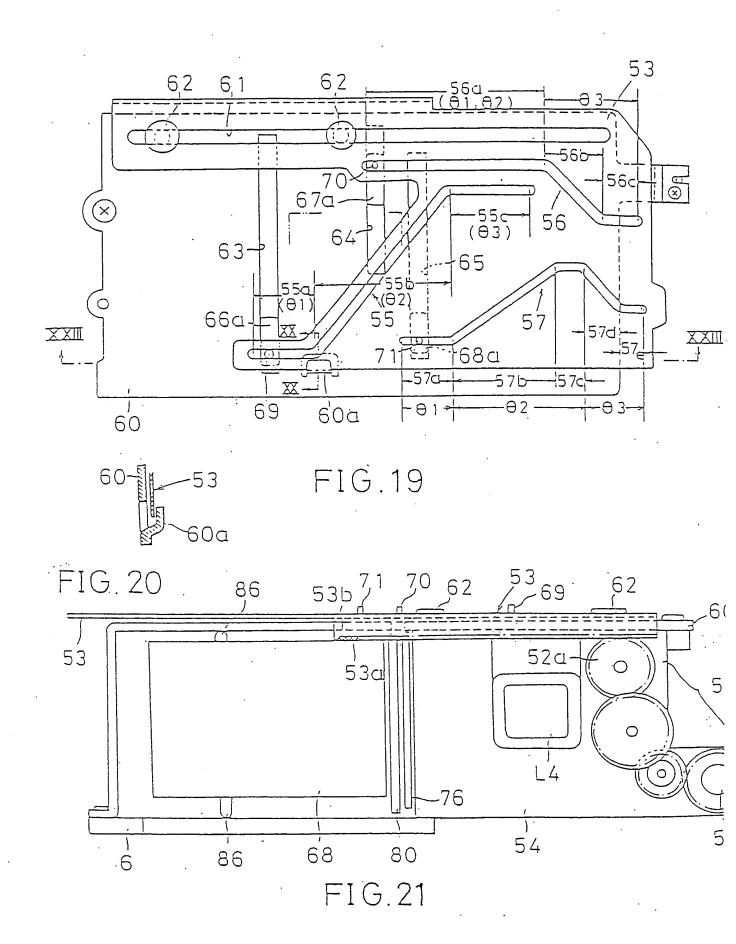
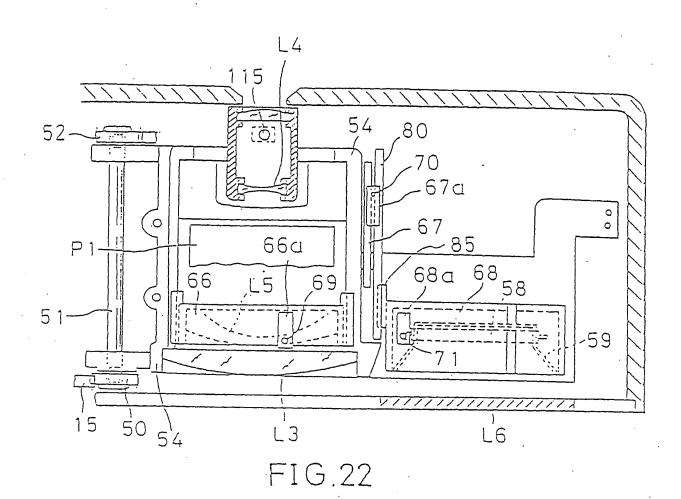
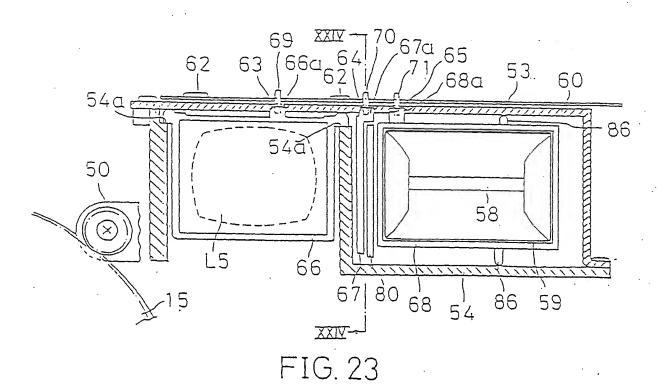


FIG:18







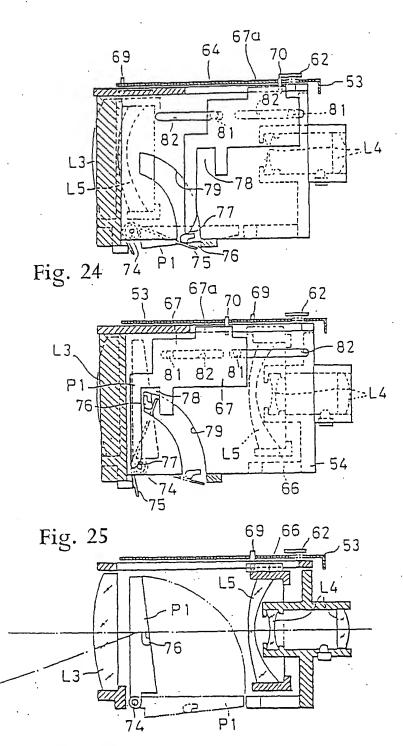
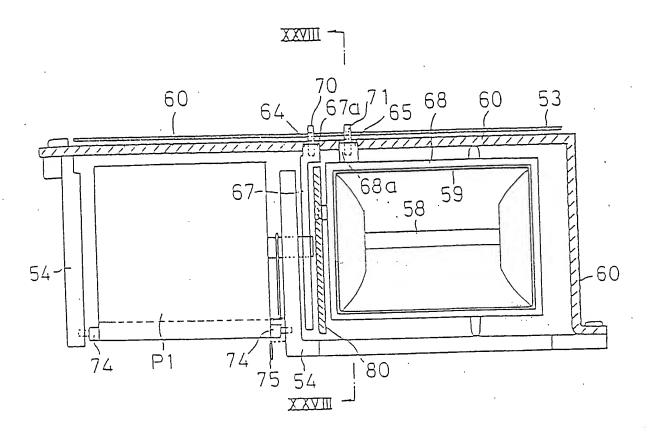


Fig. 26



·FIG.27

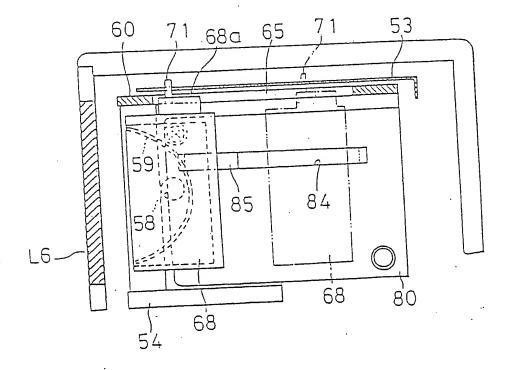


FIG. 28

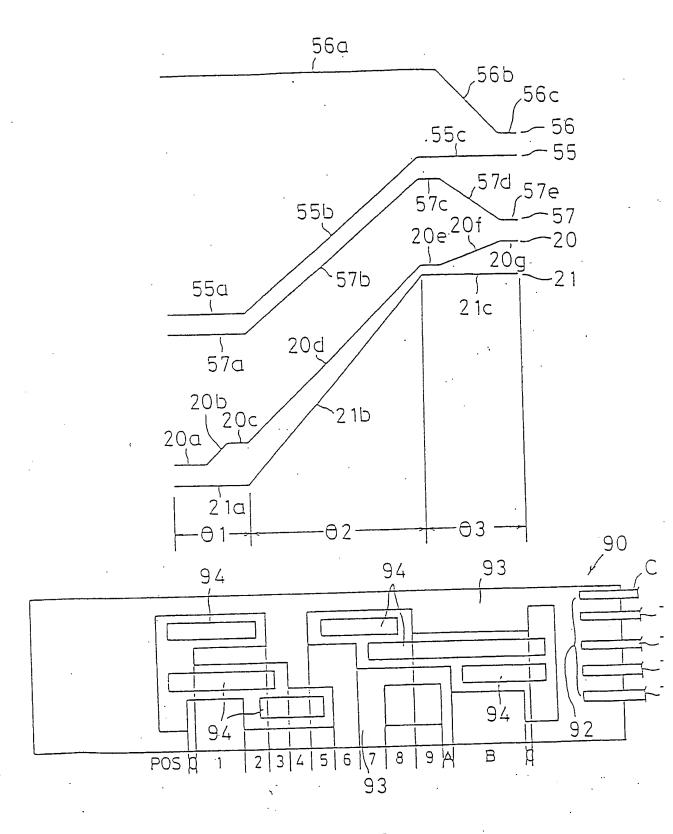


FIG. 29

- i Cam ring position
- ii Normal mode changeover
- iii Mode changeover switch at ZOOM position during zooming motor rotation in forward direction
- iiii Mode changeover switch at ZOOM position during zooming motor rotation in revarse direction

ZP 3 2.1 0	POS	i	ii	iii	iiii
1110	0	LOCK	О		
1010	1		·		
1011	2	fo			0
1001	3	f۱			
0 0 0 1	4	f2			
0011	5	- †3			<u></u> 6
0010	6	14		8	
0110	7	f5		Stop on spot	
0 1 1 1	8	f6			
0101	9	f7			
0100	А	f7'	6	70	
1100	В				
1 1 0 1	С	MACRO	0 🗓		

Start position

O —— Stop position

FIG. 30

V∆—Zoom lens positon when mode changeover switch is set at ZOOM position while zooming motor is rotating

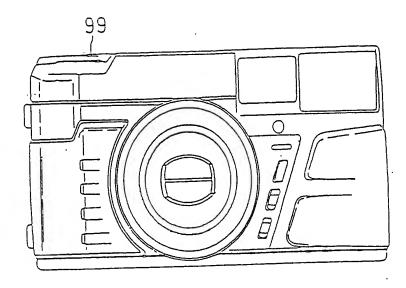


FIG. 31

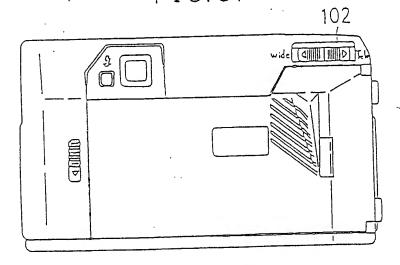


FIG. 32

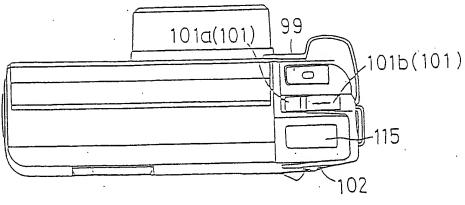
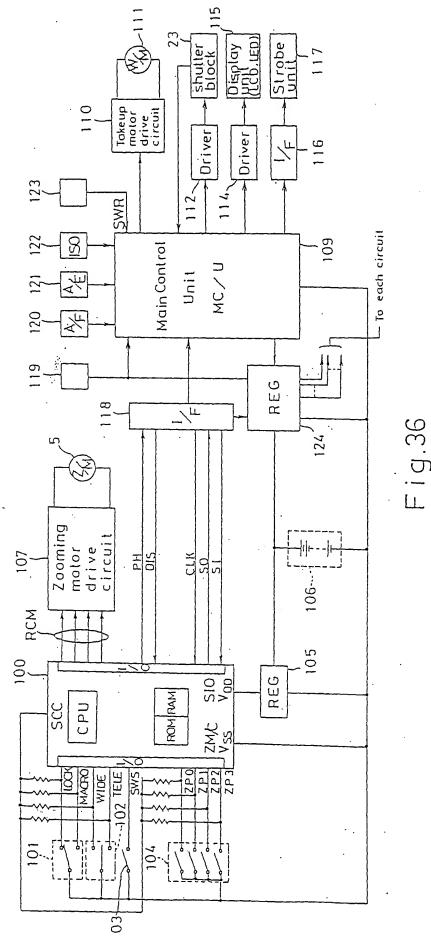
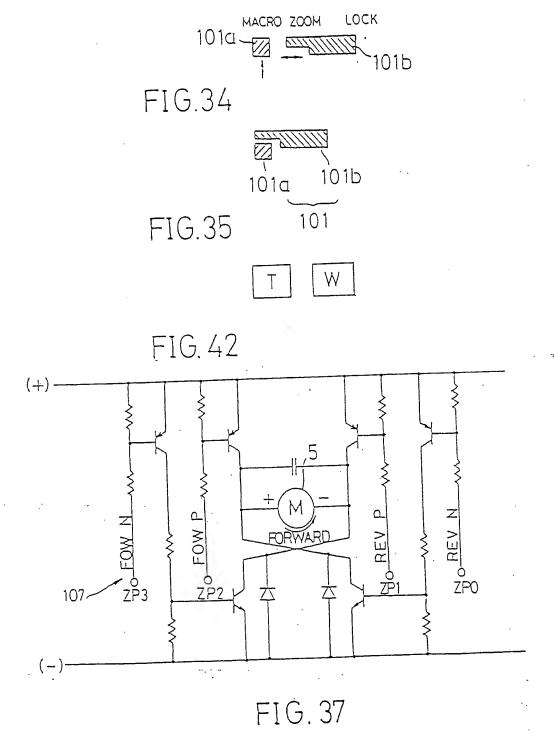


FIG.33





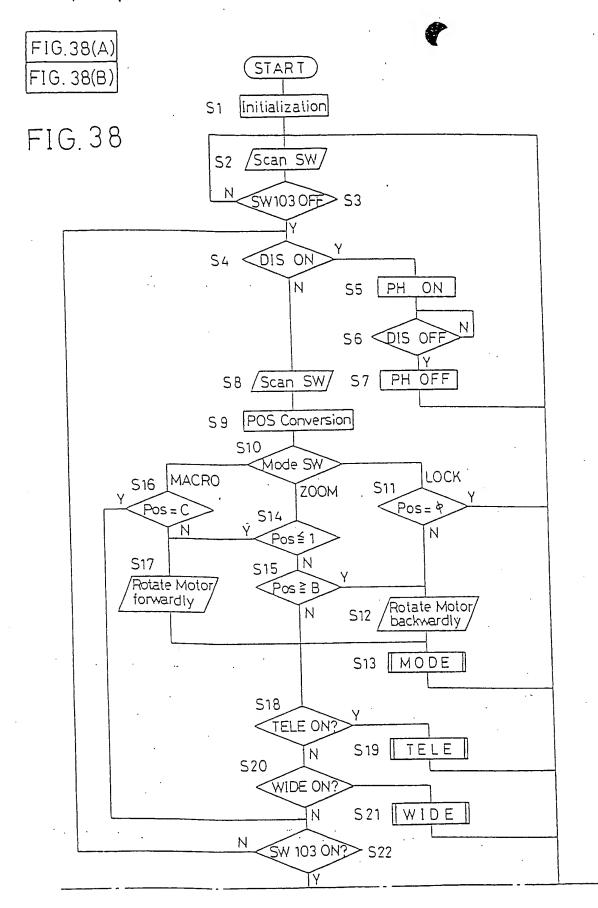
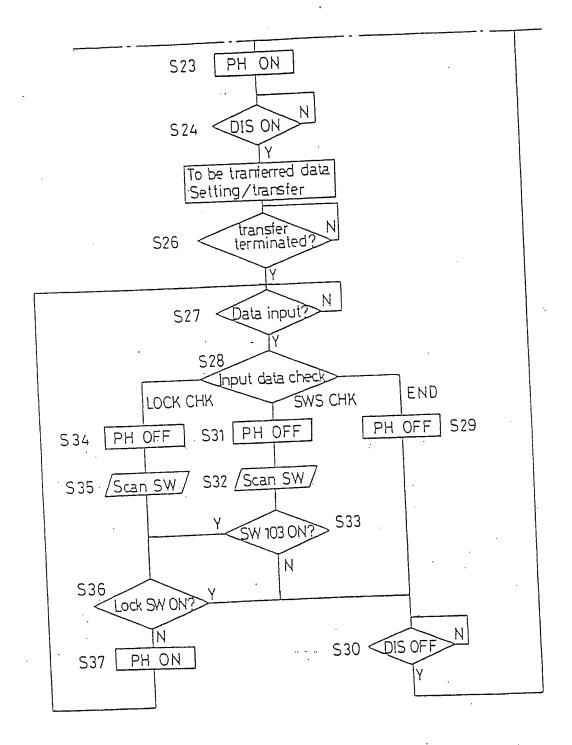
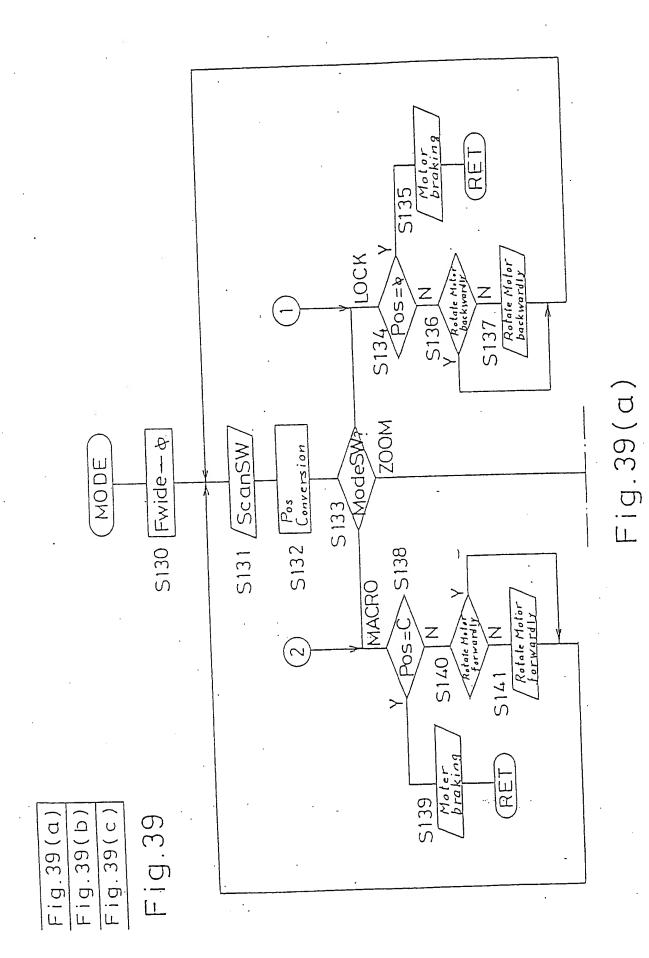


FIG.38(A)



Fi G 38 (B)



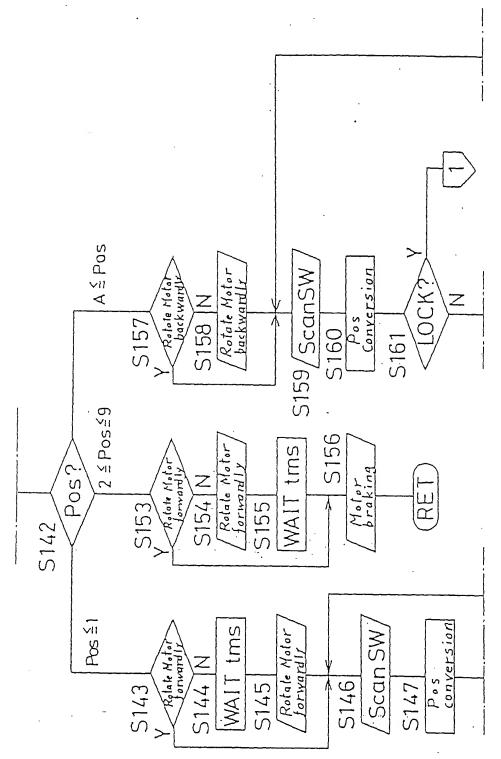


Fig. 39(b)

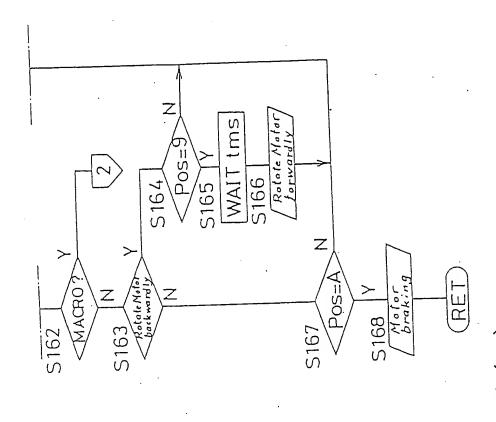


Fig. 39 (c)

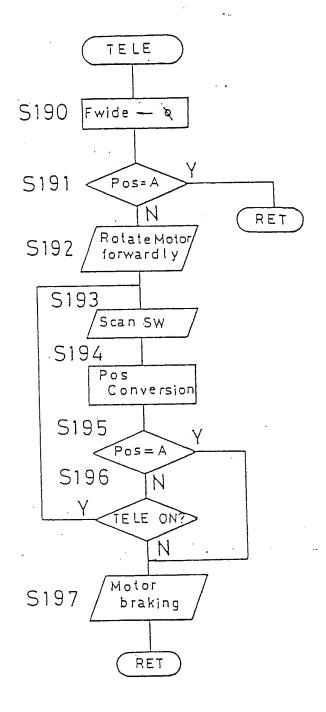
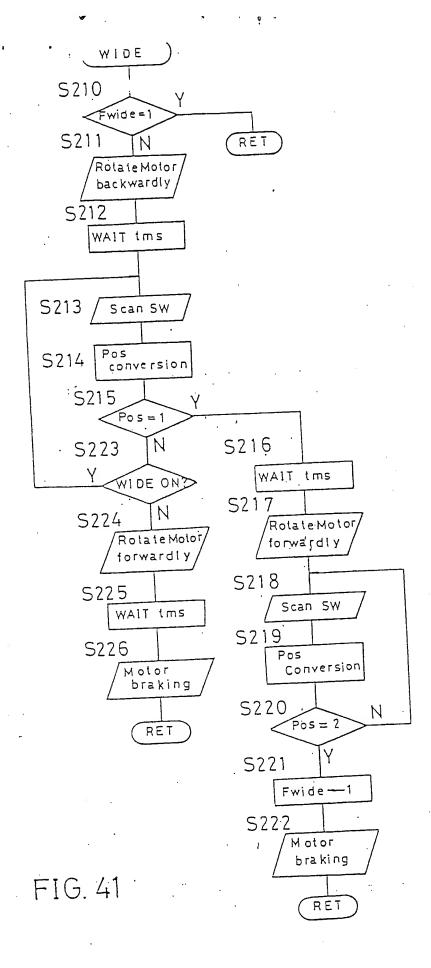


FIG. 40



ii — Normal mode changeover

iii — Mode changeover switch at ZOOM position during zooming motor rotation in forward direction

iiii — Mode changeover switch

at ZOOM position during
zooming motor rotation
in revarse direction

iiiii -- Zooming operation

ZP 3 2 1 0	POS	i	ii	iii	iiii	iiiii
1 1 1 0	0	LOCK	ŢΩ			
1010	1					
1 0 1 1	2	fo	0		 	
1001	3	f 1				11-3
0001	4	· f ₂		·	11-0-	Telephoto operation
0011	5	f3				Operation
0010	6	f4	 p -			1-6
0110	7	f5				
0111	8	f6				Wide angle operation
0101	9	f7	1110	 		Operation
0100	Α	f 7'		1-7	·	
1 1 0 0	В					
1 1 0 1	С	MACRO				

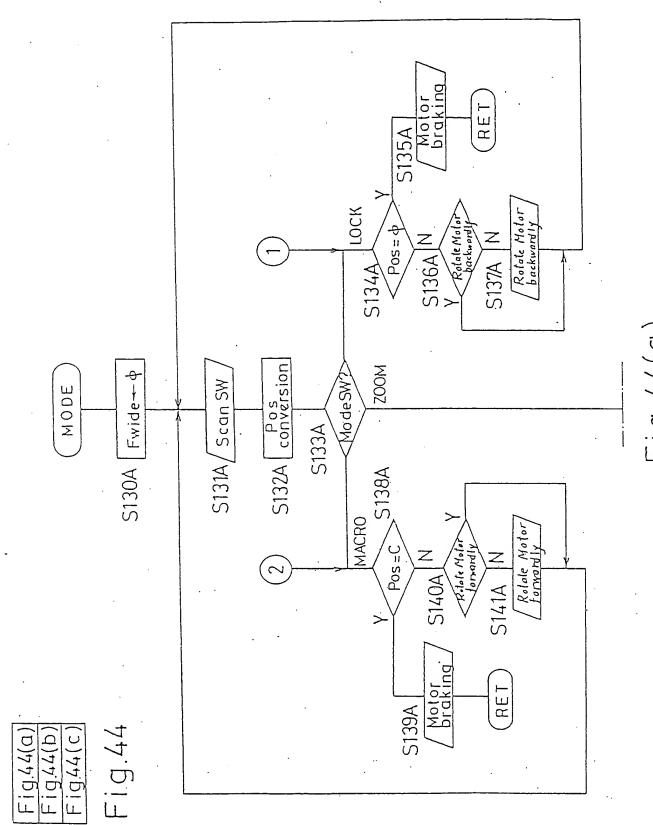
a - Start position

o — Stop position

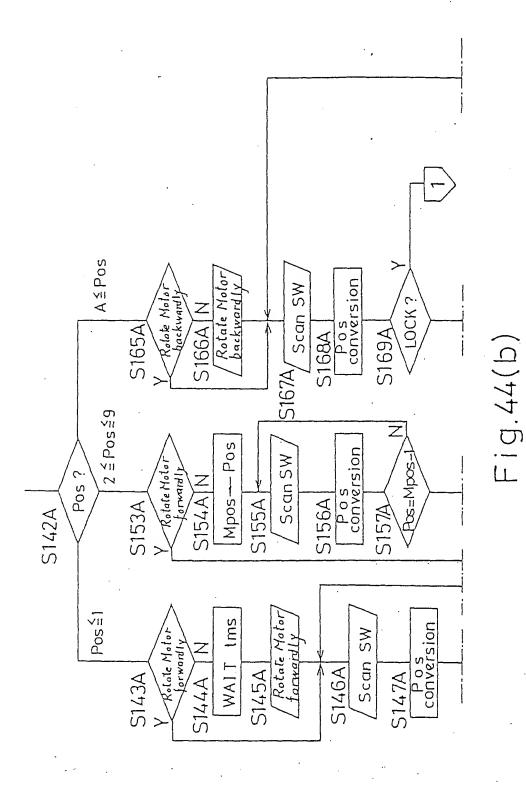
∇ Δ — Zoom lens position when mode changeover switch is set at ZOOM position white zooming motor is rotating

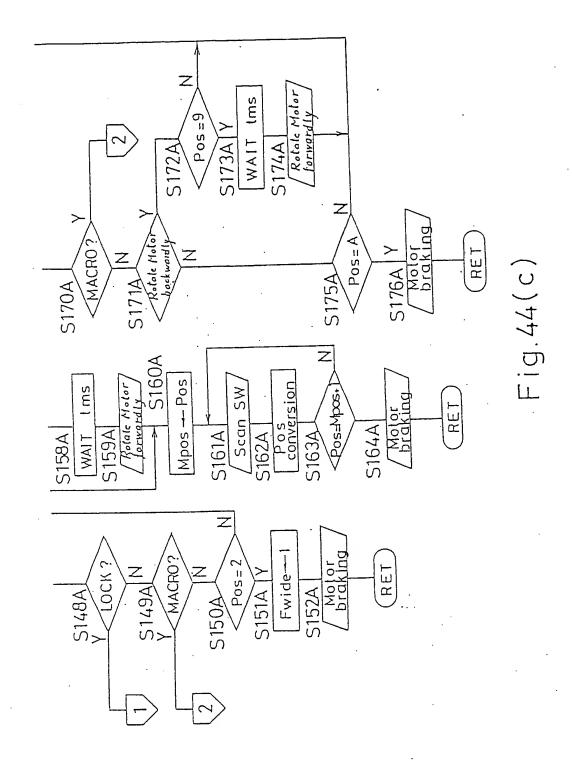
FIG. 43

∴ Stop position is always a change point of zoom code



Fia.44(a)





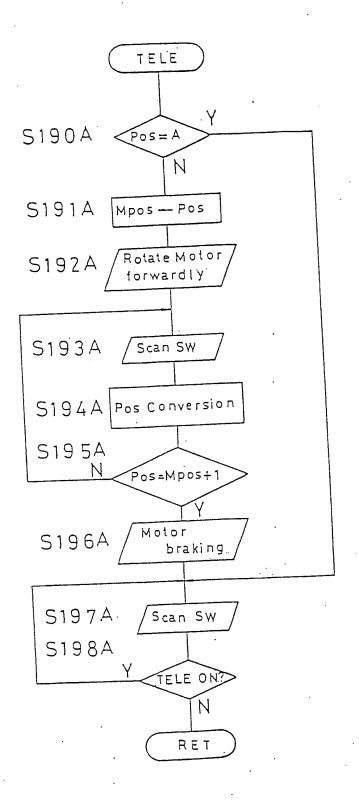
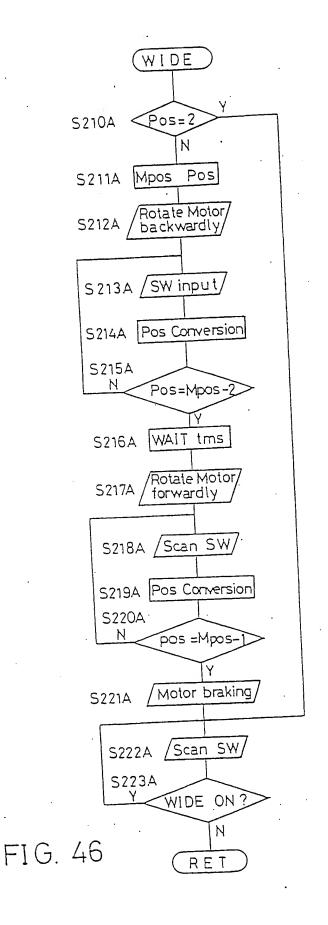


FIG. 45



- i Cam ring position
- ii Normal mode changeover
- iii Mode changeover switch at ZOOM position during zooming motor rotation in forward direction
- iiii Mode changeover switch at ZOOM position during zooming motor rotation in revarse direction
- iiiii --- Zooming operation.

ZP 3	3 2 1 0	POS	i	ii	iii	iiii	iiiii
-	1 1 1 0	0	LOCK	<u> </u>		 	
	1010	1					
	1011	2	fO	0			l p
	1 0 0 1	3	f1				
	0-001	4	f2			1	Telephoto operation
	0011	5	f3	l'		<u> </u>	
	0010	6	f4	<u> </u>			1-6
	0 1 1 0	7	f5				
	0 1 1 1	8	f6				Wide angle operation
	.0 1 0 1	9	f7	11 6	- - 		
	0 1 0 0	А	f7'				
	1 10 0	В					
	1 10 1	С	MACRO				

□ — Start position

o — Stop position

 $\nabla\Delta$ — Zoom lens position when mode changeover switch is set at ZOOM position while zooming motor is rotating

FIG. 47

Stop position is always a change point of zoom code

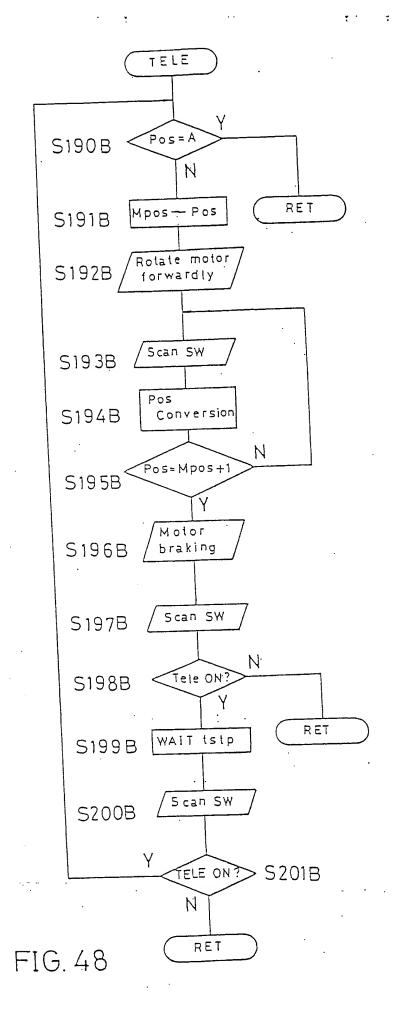


FIG. 49(A) FIG. 49(B)

FIG. 49

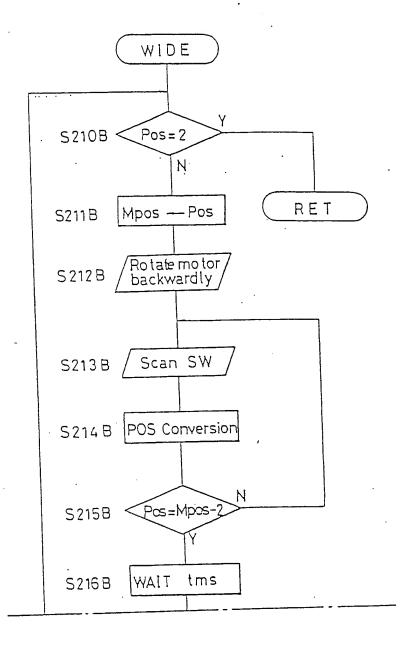
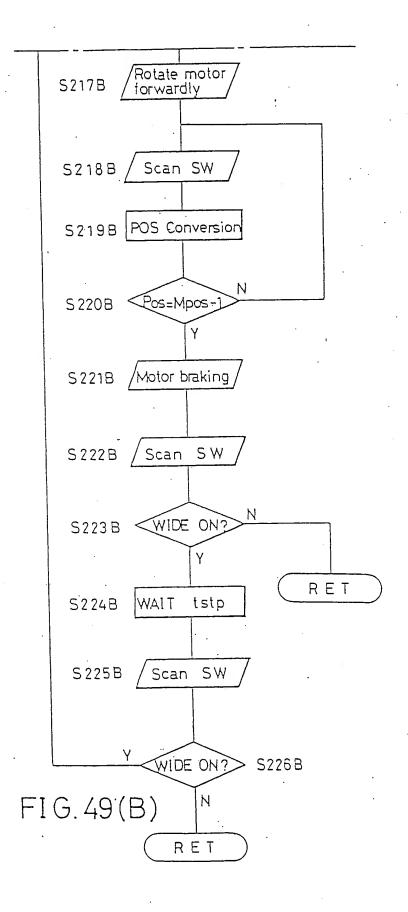


FIG. 49(A)



i - Cam ring position

Mode changeover during rotation of zooming motor

ZP 3 2 1 0	POS	i	ZOOM-LOCK-ZOOM	ZOOM-MACRO-ZOOM	ZOOM-LOCK-ZOOM	Z00M-M4CR0-Z00M
1110	0	LOCK	Q			
1010	1				<u> </u>	Against backlast
1011	2,	fo		Against backlas		Against backtast
1001	3	f1				
0001	4.	f2		1	1	1
0011	5	f3			<u> </u>	<u> </u>
0010	6	f4		1		
0110	7	f5			1	
0111	8	f ₆			 	
0101	9	f 7				
0100	А	f 7'				
1 1 0 0	В					
1 1 0 1	C.	MACRO				

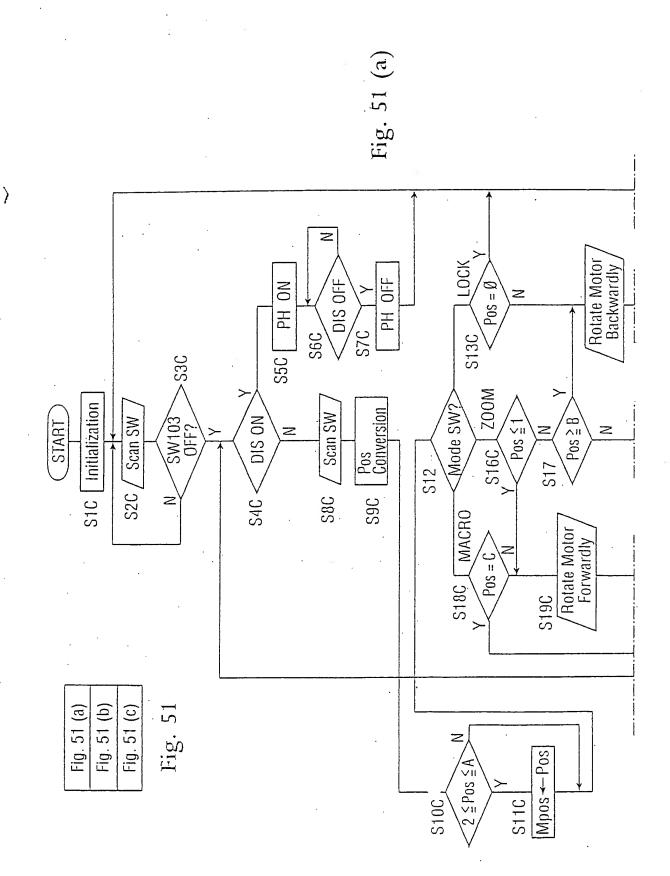
□ — Start position

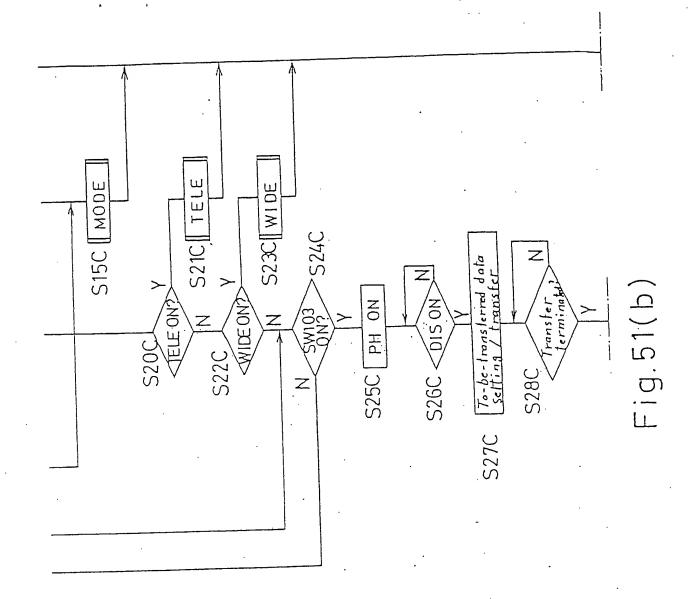
o — Stop position

When mode changeover switch is placed at ZOOh position, zooming motor immediately rotates in revarse direction

FIG. 50

- X—The stop position is always a change point of zoom code. The above chart is a one when Mpos=5
- When mode changeover switch is placed at ZOOM position zooming switch immediately rotates in forward direction





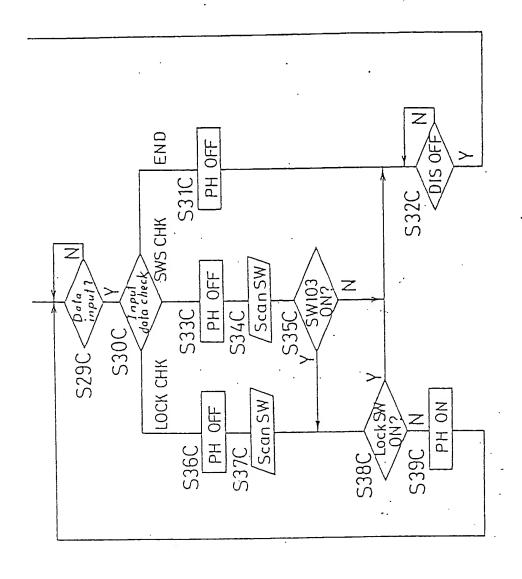
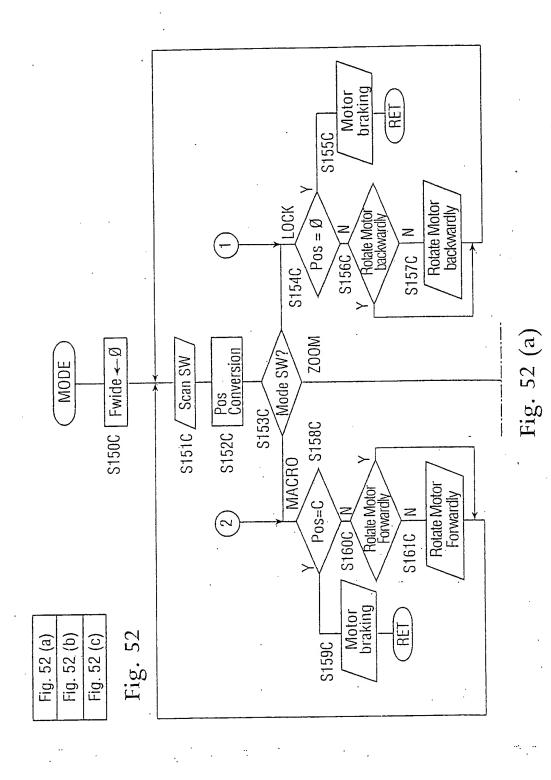


Fig.51(c)



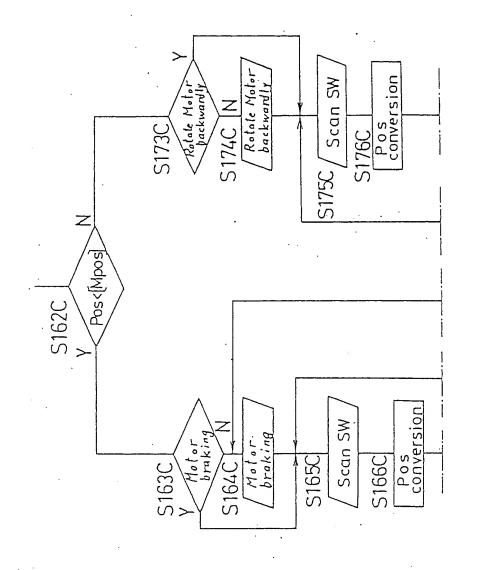


Fig. 52(b)

